



Emissions Reporting and Inventory Center ERIC

USER TRAINING Winter 2008



Presentation Overview

- Part 1: Introducing ERIC
- Part 2: 2007 and 2008 RY Changes
- Part 3: System Enhancements
- Part 4: Chapter 51 Changes
- Part 5: Remaining Q&A
- Part 6: Accessing ERIC



Part 1

Introducing ERIC - Data Elements and Hierarchy



What is ERIC?

- Enhanced, integrated, replaced EIS and TEDI
- Provides Online interactive access
- Provides flexible and enhanced user options
 - Drop down menus
 - Reduces redundant reporting
 - Intuitive report format
 - Multiple input options
 - Real time validation checks
- Online reports and queries will be available
- Will automate reporting to EPA by LDEQ



Data Entry Options

- Online data entry – can enter data directly into web-based application
- Data upload – accepts formatted data submittals using Microsoft Excel via downloadable template
- Online QA checks performed prior to certification, help reduce revisions and updates



ERIC Status

- LDEQ utilizing a portal Log-In and a Registration process
- ERIC was implemented for RY2006
- This is our second reporting year and we have developed more streamlined approaches to management of the data



ERIC Reporting Schedule

- RY2007 Emissions Data
- Due March 31, 2008
- Includes
 - Criteria pollutant and toxics data
 - Facility and Point Source level
 - All previously required data elements
- Just a few added required data elements for RY2007, and a few more for RY2008



Data Elements Terminology

- Facility - Location at which business is conducted. Agency Interest. ERIC reporting is by the AI!
- Contacts – Emissions Inventory Contact, Responsible Official, EI Billing Party are required.
- Source - Equipment or unit that generates emissions. This is the operating equipment, not the control equipment or the stack/vent;
 - *Note that piping components, valves, flanges, PRVs, etc. should not be included as individual sources in the source inventory for ERIC.*



Data Elements Terminology

- Process - Description of the operational mode and material throughput of a source generating emissions;
 - *Includes an SCC and material throughput*
 - *An emission factor, if used, is related to a Process*
 - *Fugitives & area sources do not require a Process*
- Emission Factor – Reported only if Emission Factor Calculation is selected as the Estimation Method on the Emissions Record
 - *Emissions = Activity * EF*



Data Elements Terminology

- Control System - Equipment through which emissions are routed for control
 - *e.g., ESP, scrubber, thermal oxidizer*
 - *Report a control system if you used an associated control efficiency in your emissions calculation*
- Control Efficiencies – Required for each control system reported



Data Elements Terminology

- Release Point - Physical location of release of pollutants to atmosphere
 - *UTM coordinates*
 - *Stack or area source dimensions*
- Portable Source Locations – Only used to indicate alternate locations at which a portable facility operated and permitted under LAC 33:III.513.
 - *Typically have permit numbers beginning with 7777*
 - *Not such items as rental generators that are brought onsite and moved around to different locations in the plant*
 - *e.g., portable concrete batch plant that can be moved around the state*



Data Elements Terminology

- Emissions Record - An emissions record includes
 - *the emissions path*
 - *the pollutant*
 - *tons or pounds emitted*
- Emissions Path – Combination of a source, a process, and a release point; may also include a control system.
- Emissions Type – Four types:
 - *Routine Emissions;*
 - *Routine & Startup/Shutdown Emissions;*
 - *Startup/Shutdown Emissions;*
 - *Unauthorized Discharges;*
 - *Variance Emissions*



Data Elements Terminology

- Emission Estimation Methodology -
Method to calculate emissions for each pollutant emitted by a particular process
 - *CEMS, emission factor, stack test data, engineering judgment*



Data Elements

Primary Identifiers

- Facility-generated IDs
- Up to 6 characters
- For Source, Process, Control System, and Release Point, and Portable Source Location
- Must be unique across the entire inventory for each ID type
- Must remain the same for an item over time



Data Hierarchy

Inventory Information - Exactly one record

- Identifies the reporting period and type of report

Facility Information - Exactly one record

- Includes identifying information for the facility

Contact Information - At least three records

- EI Facility Contact
- Responsible Official, and
- EI Billing Party
- EI Consultant, *optional*



Data Hierarchy

Source Information - 1 or more records

- One for each source at the facility

Process Information - 1 or more records per source

- One for each mode that the source operated in during the reporting period.

Emission Factor Information – 0 or more records for each Process

- One for each pollutant for which an emission factor is used to estimate emissions.



Data Hierarchy

Control System Information - 0 or more records

- Not tied to a specific source
- Associated with a source on the emissions record
- May be included in one or more emissions paths

Control Efficiency - 1 or more records for each Control System record

- Specified for each pollutant controlled



Data Hierarchy

Release Point Information - 1 or more records

- Not tied to a specific source
- Associated with a source on the emissions record

Portable Source Location - 0 or more records for each release point record.

- Only used to indicate alternate locations at which a portable facility operated
- Permitted under LAC 33:III.513
- Not to be used for portable sources at a major source such as diesel generators



Data Hierarchy

Emissions Records - One record of

- Tons or pounds emitted
- For each pollutant, and
- For each emissions path
 - source, process, control equipment, and release point



Minimum Decimal Places And Reporting Thresholds

- Criteria and HRVOC pollutants reported in tons
 - Two decimal places requested, but report to the accuracy level of the calculation technique that you can certify to
 - Not required to report emissions < 0.005 tons for an emissions path
- Toxics reported in pounds
 - Two decimal places minimum requested, but report to the accuracy level of the calculation technique that you can certify to
 - 3 decimal places required if MER < 50 lbs/yr, and
 - 6 decimal places required for dioxins and furans
 - Not required to report emissions < 0.005 pounds for an emissions path



Grouping Similar Sources

- May group similar sources/process if, in aggregate, emissions are
 - < 5 tons Criteria Pollutants
 - < MER for Toxic Air Pollutants
- Create an emissions path for the group
 - Source, process, release point



Insignificant Activities GCXVII and Fugitives

- May aggregate IA
 - By Permit (not facility-wide)
- May aggregate GCXVII
 - By Permit (not facility-wide)
- May report by activity type
- May aggregate Fugitives
 - By Permit (not facility-wide)



Insignificant Activities and GCXVII

- Report as area source with dimensions of area where activity occurs
- Report Insignificant Activity Lists A and D
- Do not report Insignificant Activity Lists B or C



Part 2

Reporting Calendar Year 2007 Emissions in ERIC



Changes for RY 2007

- DEQ is not proposing any significant changes to the data elements to be reported in ERIC for this reporting period.
- Remember that the deadline for both the criteria and toxics emissions reporting is March 31, 2008.



Changes for RY 2007

1. Subject Item ID is now required for Sources, Control Devices, and Release Points.
 - The list of valid subject item IDs is provided as a link in the help text. If there is not a valid subject item ID, must enter "Not Listed." This field can no longer be left blank.
2. Facility and Contact Information is now required
 - Inventories must now have required information completed on both the Facility Tab and Contact Tab before they can be submitted. Because this information comes from TEMPO, ERIC users should submit any TEMPO change requests at the start of the inventory cycle to ensure that the information is updated PRIOR to the time that the facility is attempting validation.



Changes for RY 2007

3. Additional Source Statuses have been provided:
 - Active
 - Idle
 - Permitted and never to be built
 - Permitted but not built
 - Duplicate
 - Shutdown – please provide the shutdown date
4. *Annual Average Heat Input* has been renamed *Average Annual Heat Content* and reporting is in MMBtu.
5. *Ozone Season Average Heat Input* has been renamed *Ozone Season Average Heat Content* and reporting is in MMBtu.
6. *Release Point Collection Method* and *Portable Source Collection Method* are required. Indicate the method used to measure or estimate the coordinates of the release point. There is a drop-down list of choices.



Changes for RY 2007

7. Data Elements that are proposed to remain as **optional** include:
 - *All instances of Latitude and Longitude*
 - *Engine Rating*
 - *Firing Type*
 - *Ozone Season Ash Content*
 - *Ozone Season Sulfur Content*
 - *Release Point Moisture Content*
8. Data Elements that are turned off and which will **not** be available for input include:
 - *MACT Codes*
 - *MACT Compliance Status*
 - *Virgin Fossil Fuel Exemption flag*



Changes for RY 2007

9. Reporting emissions under CAPs

- a. DEQ's transition year guidance (going from 2005 to 2006) stated: *If you reported a CAP as a single NEDS ID for RY2005, you may report the CAP as a single ERIC source for RY2006.* To accomplish this, facilities were instructed to create an emissions path for the CAP. The transition year guidance went on to say: *If you reported sources under a CAP as individual NEDS IDs for RY2005, then report as individual ERIC sources for RY2006*
- b. DEQ's general guidance from 2006 has not changed and states: If emissions are calculated for sources under a CAP individually, then facilities should report them as individual ERIC sources, making sure that the CAP is not reported as a source (to eliminate double counting of emissions); likewise, if emissions are calculated across the CAP in aggregate, then report the CAP as a single ERIC emissions path.



Changes for RY 2007

10. Miscellaneous

- a. Ozone Season is defined as May 1 – September 30 (Chapter 22)
- b. Facilities may choose one SCC and report all tank emissions (breathing/working/standing losses) under it.
 - LDEQ has consulted with EPA and at this time, we are not requiring facilities to separate out the emissions.
- c. Facilities must now enter the appropriate units (tons or pounds) with the pollutant. Values will be presented in a dropdown menu.
 - Criteria and HRVOC emissions are reported in tons
 - Toxic emissions are reported in pounds (including Ammonia)



Changes for RY 2007

- d. The Excel spreadsheet format for uploading and downloading inventory data to and from ERIC has been revised and simplified to provide more flexibility to ERIC users.
- e. Decimal places have increased for:
 - Annual Throughput
 - Ozone Throughput
 - Annual Heat input or Content
 - Ozone Heat Input or Content
 - Emission Factor
 - Flow Rate
 - Velocity
 - Maximum Design Rate
 - Engine Rating



Changes for RY 2007

- f. Removal of unused parishes (affects Portable Source Location)
 - Gulf of Mexico
 - Multi-Parish
 - Out of State
 - Not Assigned
- g. Regrouping of CAIR, BART, CAMR data
 - Serial Number
 - Construction Date
 - Initial Startup Date
 - Oris Code
 - Max Nameplate Capacity
- h. Account names updated to match TEMPO



Changes for RY 2007

11. Emissions Record Type – This is still an optional requirement for 2007, however changes were made to the choices in the pull-down list. Note that for 2008 emissions, this will be a required field. The current choices are:
- a. **Routine** – Refers to emissions that are authorized and permitted and which do not include any startup/shutdown emissions.
 - b. **Routine & Startup/Shutdown** – This is a new choice for users. This type is used to report authorized startup/shutdown emissions; ie. those that are specifically included in a permit.
 - c. **Startup/Shutdown** – Refers to emissions that are authorized and permitted separately from routine emissions. Facilities should report these under the applicable source.



Changes for RY 2007

- d. **Unauthorized Discharges** – This was renamed from “Emergency Releases/Upsets/Malfunctions. This is based on OSEC rule definition. DEQ prefers that emissions be reported either at the Source / Process / Release / Emission Point level for the point source, however, if this is not possible, then you can create a new emissions path record to represent the entire facility or the “unit” level (i.e. Glycol unit, Amines unit, etc). This will be required at the “unit” level for 2008 emissions.
- e. **Variance** – For variances that are approved by the Department, facilities must either report Source / Process / Release / Emission Point level for the point source or they can create a new emissions path record to represent the facility “unit” level (i.e. Glycol unit, Amines unit, etc).



Part 2

Reporting Calendar Year 2008

Emissions in ERIC

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
: A CLEAN STATE OF MIND FOR ALL YOUR ENVIRONMENTS



Changes for RY 2008

- In addition to the changes implemented for calendar year 2007, DEQ is implementing some changes to the data elements to be reported in ERIC for calendar year 2008 and beyond.
- The CERR requires additional data to be submitted by the department to EPA for the 2008 reporting year



Changes for RY 2008

1. *Release Point Orientation* is required. For stack and vent release point types, enter the orientation of the release from vertical in decimal degrees (e.g., 0 = up, 90 = horizontal). For area and fugitive releases, enter the orientation of the long axis of the area (decimal degrees bearing from north).
2. *Release Point Accuracy* is required. Measure of accuracy of the coordinates provided, in meters.



Changes for RY 2008

3. *Portable Source Accuracy* is required.

- Remember that Portable Sources are those which are portable facilities permitted under LAC 33:III.513
- Typically have permit numbers beginning with 7777.
- Portable sources are **not** such items as rental generators that are brought on-site and moved around to different locations in the plant.
- An example of a portable source would be a portable concrete batch plant that can be moved around the state.



Changes for RY 2008

4. *Emissions Record Type* – This is now a required field and changes were made to the choices in the pull-down list. The current choices are:
- a. **Routine** – Refers to emissions that are authorized and permitted and for which the permits do not include any startup/shutdown emissions.
 - b. **Routine & Startup/Shutdown** – This is a new choice for users. This type is used to report both routine and authorized startup/shutdown emissions; ie. those that are specifically included in a permit.
 - c. **Startup/Shutdown** – Refers to emissions that are authorized and permitted separately from routine emissions. Facilities should report these under the applicable source.



Changes for RY 2008

- d. **Unauthorized Discharges** – This was renamed from “Emergency Releases/Upsets/Malfunctions. This is based on OSEC rule definition. DEQ prefers that emissions be reported either at the Source / Process / Release / Emission Point level for the point source, however, if this is not possible, then you can create a new emissions path record to represent the entire facility or the “unit” level (i.e. Glycol unit, Amines unit, etc). This will be required at the “unit” level for 2008 emissions.
- e. **Variance** – For variances that are approved by the Department, facilities must either report Source / Process / Release / Emission Point level for the point source or they can create a new emissions path record to represent the facility “unit” level (i.e. Glycol unit, Amines unit, etc).



Part 3

System Enhancements

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
: A CLEAN STATE OF MIND FOR ALL YOUR ENVIRONMENTS



System Enhancements

Include:

- Enhancements to the Excel Spreadsheet
- TEMPO Integration
- Revised Certification Statement



Spreadsheet Enhancements

- Spreadsheet is unlocked
- Easy to copy and paste
 - When copying and pasting, use Edit – Paste Special – Values in order to maintain cell validation
- Cannot upload previous versions of the spreadsheets
- Upload/download times are much shorter



Spreadsheet Enhancements

- Able to sort
- Cannot update facility info
- Can only update Consultant contact info
 - Cannot update EI Facility Contact, Responsible Official, or EI Billing Party – must be done through TEMPO
- Color coded to match the web interface



Spreadsheet Enhancements

- Can sum values
- Does not have a predefined range of rows
- Users can “flag” rows to specify what has been updated and what needs updating or not
- Can insert rows and columns



Integration to TEMPO

- Facility and Contact tab validation through TEMPO
- ERIC will pull sources from previous year's inventory as well as subject items from TEMPO
 - Additional guidance will be provided on the additional data from TEMPO
- ERIC is not the only way to update TEMPO



Revised Certification Statement

- Certification statement shows the emissions out to the number of decimals places reported.
 - e.g., if 5 decimal places are reported for CO, then the certification statement will show 5 decimal places.
 - There is no rounding.
- Only shows emissions that correspond to the inventory type (criteria only, toxic only, etc.) and the parish the facility is in.
 - e.g., the certification statement for a facility in Ascension parish who reports an inventory type of Criteria Only will show criteria emissions and HRVOC emissions, but not toxic emissions – even if toxics are reported



Revised Certification Statement

- If no emissions are reported for a pollutant required by the inventory type and parish, then the certification statement will show 0.
 - e.g., the certification statement for a facility in Ascension parish that does not report any HRVOC emissions will show 0 tons of each HRVOC
- If inventory type is toxic only or criteria and toxic, the certification statement will show the summation of nontoxic VOC and the summation of toxic VOC.
 - These values are used in invoicing.



Part 4

Chapter 51 Changes

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
: A CLEAN STATE OF MIND FOR ALL YOUR ENVIRONMENTS



Chapter 51 Changes

- Requires major sources to report – minor sources are no longer required to report, however,
 - If a facility is a minor source of toxics, but permit contains requirements to report:
 - Can report voluntarily
 - Get permit modified prior to reporting deadline to remove requirement
 - Await action by department to clarify the impact of the rule revisions



Chapter 51 Changes

- Exemptions in LAC 33:III.5105:
 - Addition of emissions from the combustion of gas streams with a BTU value of greater than 7,000 BTU/lb that are generated by onsite operations, collected by a fuel gas system as defined, and used as fuel
 - Only toxic emissions are exempt from reporting
 - If required to report per LAC 33:III.919, criteria emissions, including Total VOCs, are still required



Chapter 51 Changes

- Reporting deadline has been changed from July 1 to March 31
- Discharge report required by LAC 33:III.5107.B.5 also required by March 31
 - Can not be reported electronically, must be sent hard copy with the certification statement
 - “unauthorized discharges” emission type is not to be used as the discharge report



Part 5

Questions?

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
: A CLEAN STATE OF MIND FOR ALL YOUR ENVIRONMENTS



Part 6

Accessing ERIC

LOUISIANA DEPARTMENT OF **ENVIRONMENTAL QUALITY**
: A CLEAN STATE OF MIND FOR ALL YOUR ENVIRONMENTS



Portal Accounts

- You must have a DEQ Portal Account to Use ERIC
 - Portal Accounts Belong to Specific People
 - Associated with ERIC accounts
- Register for a Portal Account at DEQ Web Site



ERIC Accounts

- ERIC Account
 - AI/Owner Company
 - Each owner has separate accounts
 - Linked to Portal User Accounts
 - User Roles
- Pre-Registration Process
 - Log in to portal, enter AI and pre-registration code
- If you don't have an account set up for your AI, you need to email EI-TEDI-TRI@la.gov requesting an ERIC account.
 - Include AI#, Owner Name, Owner Address
 - We will create account as well as preregistration code
 - Preregistration codes must be sent to a company employee – can not be sent to a consultant



Accessing ERIC Accounts

- Request Access
 - Others who need access must request it
 - ERIC Account Administrator (at Facility) grants or rejects requests (NOT LDEQ!)
 - You manage access to your account
 - You grant access and roles to requestors on User Admin page
 - Password Resets – in the user profile
 - Forgot User Name?



To Get Started

- DEQ Website:
 - <http://deq.la.gov>
- Instructions at ERIC Home Page
- Create Portal Account



“Account Home”

- Page displays current list of inventories
- Inventory Status
 - “Editing” status means the inventory is in progress and is only on the ERIC site (not submitted to the department)
 - “Submitted” means the inventory can only be viewed or brought forward for creating a revised inventory
 - “Revised” status means a more recent revision has been submitted for a particular inventory (only the most current version can be revised)
 - “Certified” means the department has received the signed certification statement and updated ERIC to reflect the certified date
 - Certified date is the postmark or ship date of the certification statement
 - Only one “Editing” inventory active at any given time




Validation

- QA Checks
 - Basic checks done on each screen (data type, range of values)
 - Required fields NOT checked until you submit
 - You can run validation checks at any time
 - Printable list of items to address



Helpful Hints

- Using the web interface
 - Multiple items (e.g. sources) listed in summary table
 - Add New button to add item, or use Duplicate  button to copy an existing item
 - Must hit Save button to save data!
 - On Emissions tab, wait for dropdowns to update after selecting Source or Release Point



Helpful Hints

- Using the web interface
 - Don't use the browser "Back" button
 - Edit mode -> use Save or Cancel buttons
 - Don't use "Refresh" if you just submitted a form using Save button – it will try to resubmit the data!
 - Your session will time out after a period of inactivity – don't leave a form in Edit mode



Questions?

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
: A CLEAN STATE OF MIND FOR ALL YOUR ENVIRONMENTS